

three inches = one foot

one and one half inch = one foot

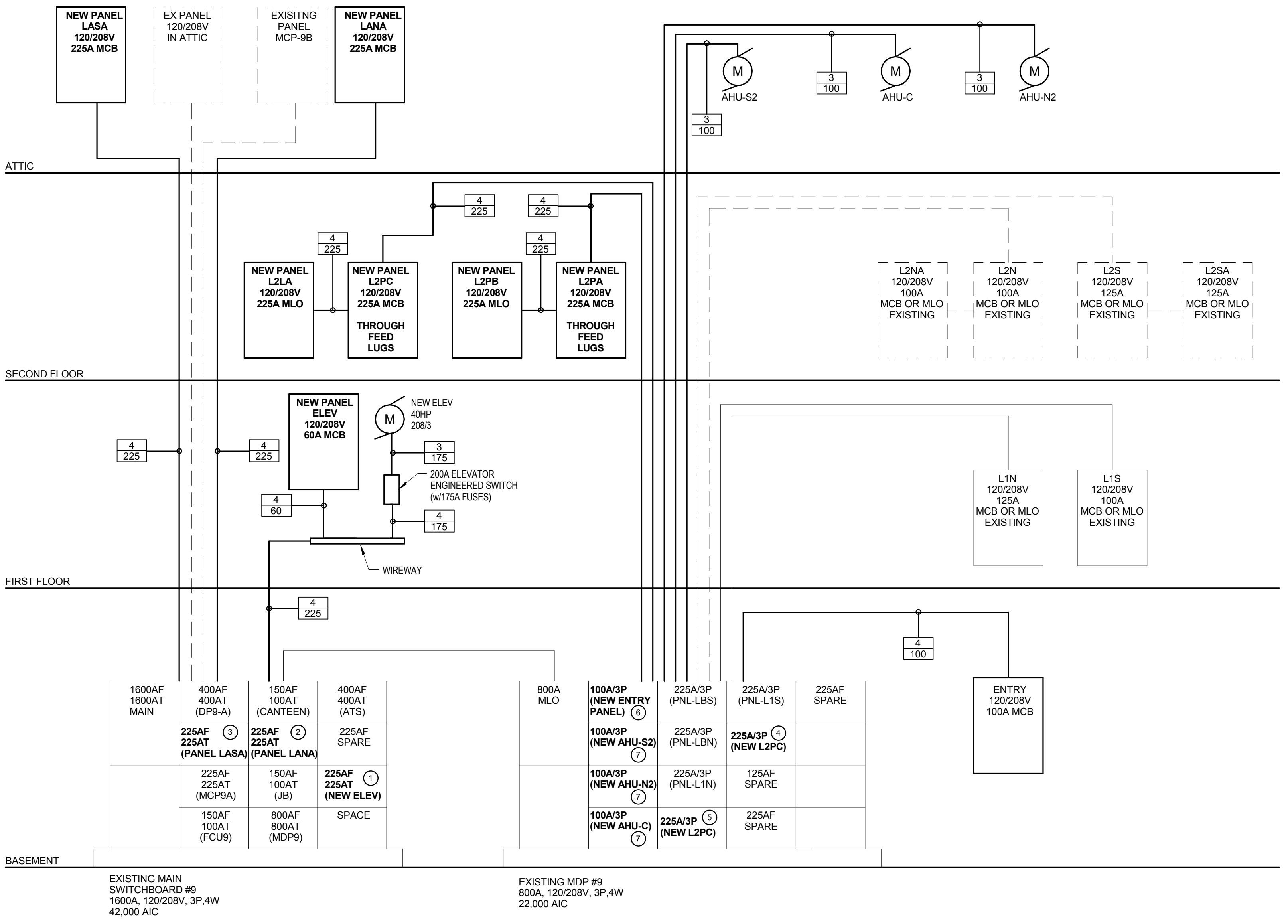
one inch = one foot

three quarters inch = one foot

one half inch = one foot

one quarter inch = one foot

one eighth inch = one foot



- NUMBERED NOTES (This Detail)
- 1

PROVIDE A 175A-3P CIRCUIT BREAKER MATCHING EXISTING AIC RATING IN EXISTING SPACE IN SWITCHBOARD #9 FOR POWER FEED TO NEW ELEVATOR.
- 2

REUSE EXISTING 225A-3P CIRCUIT BREAKER FOR FEED TO NEW PANEL 'LANA' IN ATTIC.
- 3

REUSE EXISTING 225A-3P SPARE CIRCUIT BREAKER FOR FEED TO NEW PANEL 'LASA' IN ATTIC.
- 4

REUSE EXISTING 225A-3P SPARE CIRCUIT BREAKER FOR FEED TO NEW PANEL 'L2PA' IN ATTIC.
- 5

REUSE EXISTING 225A-3P SPARE CIRCUIT BREAKER FOR FEED TO NEW PANEL 'L2PC' IN ATTIC.
- 6

REUSE EXISTING 100A-3P SPARE CIRCUIT BREAKER FOR FEED TO NEW PANEL 'ENTRY' IN NEW HOLDING ROOM.
- 7

REUSE EXISTING 100A-3P SPARE CIRCUIT BREAKER FOR FEED TO NEW AHU.

LINETYPE LEGEND

—	NEW
- - -	DEMO
---	EXISTING

1

BUILDING ELECTRICAL RISER - DEMO AND NEW WORK

SCALE = NTS

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE								
TAG	DESCRIPTION	MOCP	VOLTS/PHASE	FLA	HP	MCA	WATTS	NOTES
AHU-S1.1	AHU SUPPLY FAN	40A	208/3	---	---	21.9	---	5
AHU-S1.2	AHU EXHAUST FAN	20A	208/3	---	---	8.6	---	5
AHU-S1.3	AHU ENERGY RECOVERY WHEEL	20A	120/1	---	---	2.4	---	4
AHU-J1.1	AHU SUPPLY FAN	50A	208/3	---	---	31.6	---	5
AHU-J1.2	AHU EXHAUST FAN	20A	208/3	---	---	8.6	---	5
AHU-J1.3	AHU ENERGY RECOVERY WHEEL	20A	120/1	---	---	2.4	---	4
AHU-S2	AIR HANDLING UNIT	100A	208/3	---	---	60.4	---	5
AHU-C	AIR HANDLING UNIT	100A	208/3	---	---	60.4	---	5
AHU-N2	AIR HANDLING UNIT	100A	208/3	---	---	60.4	---	5
ERU-S2	ENERGY RECOVERY UNIT	20A	208/3	---	---	8.6	---	5
ERU-C	ENERGY RECOVERY UNIT	20A	208/3	---	---	8.6	---	5
ERU-N2	ENERGY RECOVERY UNIT	20A	208/3	---	---	8.6	---	5
RF-S2	RELIEF FAN	30A	208/3	---	5	---	---	5
RF-C	RELIEF FAN	30A	208/3	---	5	---	---	5
RF-N2	RELIEF FAN	30A	208/3	---	5	---	---	5
CUH-1	CABINET UNIT HEATER	20A	120/1	---	---	1.3	---	3
CUH-2	CABINET UNIT HEATER	20A	120/1	---	---	1.3	---	3
UH-1	UNIT HEATER	20A	120/1	---	---	0.8	---	3
CU-1	CONDENSING UNIT	30A	208/1	---	---	19.5	---	3
AC-1	SPLIT SYSTEM	PROVIDE (2) #12 & #12 GRD FROM CU-1 TO AC-1 FOR CONTROL WIRING						
NOTES: 1. COORDINATE CONNECTIONS WITH ACTUAL UNIT PROVIDED. 2. REFER TO MECHANICAL EQUIPMENT SCHEDULES ON H SERIES DRAWINGS. 3. UNIT SHALL HAVE INTEGRAL DISCONNECT SWITCH (SUPPLIED BY H.C. AND WIRED BY E.C.) 4. UNIT SHALL HAVE EXTERNAL DISCONNECT SWITCH (SUPPLIED AND INSTALLED BY E.C.) 5. UNIT SHALL HAVE VFD (SUPPLIED BY H.C. AND INSTALLED BY E.C.). REFER TO H SERIES DRAWINGS FOR LOCATION OF VFD'S.								

ELECTRICAL FEEDER SCHEDULE			
3		4	
AMPS	3PH, 3W, & GROUND	AMPS	3PH, 4W, & GROUND
15	(3) #12 & 1#12 G IN 3/4" C	15	(4) #12 & 1#12 G IN 3/4" C
20	(3) #12 & 1#12 G IN 3/4" C	20	(4) #12 & 1#12 G IN 3/4" C
25	(3) #10 & 1#10 G IN 3/4" C	25	(4) #10 & 1#10 G IN 3/4" C
30	(3) #10 & 1#10 G IN 3/4" C	30	(4) #10 & 1#10 G IN 3/4" C
35	(3) #8 & 1#10 G IN 3/4" C	35	(4) #8 & 1#10 G IN 3/4" C
40	(3) #8 & 1#10 G IN 3/4" C	40	(4) #8 & 1#10 G IN 3/4" C
45	(3) #8 & 1#10 G IN 3/4" C	45	(4) #8 & 1#10 G IN 1" C
50	(3) #8 & 1#10 G IN 3/4" C	50	(4) #8 & 1#10 G IN 1" C
60	(3) #4 & 1#10 G IN 1" C	60	(4) #4 & 1#10 G IN 1 1/4" C
70	(3) #4 & 1#8 G IN 1 1/4" C	70	(4) #4 & 1#8 G IN 1 1/4" C
80	(3) #3 & 1#8 G IN 1 1/4" C	80	(4) #3 & 1#8 G IN 1 1/4" C
90	(3) #2 & 1#8 G IN 1 1/4" C	90	(4) #2 & 1#8 G IN 1 1/4" C
100	(3) #1 & 1#8 G IN 1 1/2" C	100	(4) #1 & 1#8 G IN 1 1/2" C
125	(3) #1 & 1#6 G IN 1 1/2" C	125	(4) #1 & 1#6 G IN 1 1/2" C
150	(3) #1/0 & 1#6 G IN 1 1/2" C	150	(4) #1/0 & 1#6 G IN 1 1/2" C
175	(3) #2/0 & 1#6 G IN 2" C	175	(4) #2/0 & 1#6 G IN 2" C
200	(3) #3/0 & 1#6 G IN 2" C	200	(4) #3/0 & 1#6 G IN 2" C
225	(3) #4/0 & 1#4 G IN 2" C	225	(4) #4/0 & 1#4 G IN 2" C
250	(3) #250 KCMIL & 1#4 G IN 2 1/2" C	250	(4) #250 KCMIL & 1#4 G IN 2 1/2" C
300	(3) #350 KCMIL & 1#4 G IN 2 1/2" C	300	(4) #350 KCMIL & 1#4 G IN 2 1/2" C
350	(3) #500 KCMIL & 1#3 G IN 3" C	350	(4) #500 KCMIL & 1#3 G IN 3" C
400	(3) #500 KCMIL & 1#3 G IN 3" C	400	(4) #500 KCMIL & 1#3 G IN 3" C
450	2 SETS OF (3) #4/0 & 1#2 G IN 2" C	450	2 SETS OF (4) #4/0 & 1#2 G IN 2 1/2" C
500	2 SETS OF (3) #250 KCMIL & 1#2 G IN 2 1/2" C	500	2 SETS OF (4) #250 KCMIL & 1#2 G IN 3" C
600	2 SETS OF (3) #350 KCMIL & 1#1 G IN 3" C	600	2 SETS OF (4) #350 KCMIL & 1#1 G IN 3" C
800	2 SETS OF (3) #500 KCMIL & 1#1/0 G IN 3" C	800	2 SETS OF (4) #500 KCMIL & 1#1/0 G IN 3 1/2" C
900	3 SETS OF (3) #500 KCMIL & 1#2/0 G IN 3" C	900	3 SETS OF (4) #500 KCMIL & 1#2/0 G IN 3" C
1000	3 SETS OF (3) #500 KCMIL & 1#2/0 G IN 3" C	1000	3 SETS OF (4) #500 KCMIL & 1#2/0 G IN 3 1/2" C
1200	4 SETS OF (3) #500 KCMIL & 1#3/0 G IN 3" C	1200	4 SETS OF (4) #350 KCMIL & 1#3/0 G IN 3" C
1600	5 SETS OF (3) #500 KCMIL & 1#4/0 G IN 3" C	1600	5 SETS OF (4) #500 KCMIL & 1#4/0 G IN 3 1/2" C
2000	6 SETS OF (3) #500 KCMIL & 1#500 KCMIL G IN 3 1/2" C	2000	6 SETS OF (4) #500 KCMIL & 1#500 KCMIL G IN 3 1/2" C
2500	7 SETS OF (3) #500 KCMIL & 1#500 KCMIL G IN 3 1/2" C	2500	7 SETS OF (4) #500 KCMIL & 1#500 KCMIL G IN 3 1/2" C
3000	8 SETS OF (3) #500 KCMIL & 1#500 KCMIL G IN 3 1/2" C	3000	8 SETS OF (4) #500 KCMIL & 1#500 KCMIL G IN 3 1/2" C
3500	10 SETS OF (3) #500 KCMIL & 1#500 KCMIL G IN 3 1/2" C	3500	10 SETS OF (4) #500 KCMIL & 1#500 KCMIL G IN 3 1/2" C
4000	11 SETS OF (3) #500 KCMIL & 1#500 KCMIL G IN 3 1/2" C	4000	11 SETS OF (4) #500 KCMIL & 1#500 KCMIL G IN 3 1/2" C
NOTES: 1. CONDUIT SIZES FOR THINWALL COPPER CONDUCTORS ONLY. OTHER CONDUCTOR TYPES MAY REQUIRE INCREASED CONDUIT SIZE. 2. GROUND CONDUCTORS SPECIFIED IS FOR EQUIPMENT GROUND PER N.E.C. UNLESS NOTED OTHERWISE. T TOP NUMBER REFERS TO COLLARS B BOTTOM NUMBER REFERS TO ROWS (AMPS)			

Revisions:

Date

CONSULTANTS:

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Drawing Title

ELECTRICAL RISER DIAGRAM & SCHEDULES

Approved: Project Director

Project Title

BUILDING 9 - SECOND FLOOR RENOVATION

Location: 1400 Blackhorse Hill Road  
Coatesville, PA 19320

Date

05 / 12 / 14

Checked

JJD

Drawn

JMZ

Project Number

542-13-105

Building Number

9

Drawing Number

E500

Dwg. 111 of 125

Office of Construction and Facilities Management

Department of Veterans Affairs